

DIVISION 2 — EARTHWORK

Section 02325: Soil Management and Disposal

SECTION 02325: SOIL MANAGEMENT AND DISPOSAL

PART 1 – GENERAL

1.01 DESCRIPTION OF WORK

This work includes requirements for managing soils accumulated from excavation or imported for use on-site. This includes soil stockpiling and on-site handling procedures. It also consists of transporting and disposing of materials off-site.

1.02 DEFINITIONS

Excavated materials shall be classified into the following general categories:

- A. Potentially Reusable Soil. The Contractor may elect to reuse near-surface fill soils provided that they meet the specification for earthwork materials in 02300-Earthwork.
- B. Landfill Refuse. Excavated landfill refuse shall not be re-used on-site.
- C. Debris. This includes non-soil materials that are removed as part of excavation. Debris shall become the property of the Contractor, and shall either be disposed off-site, reused on-site subject to the Engineer's approval, or salvaged by the Contractor.

1.03 JOB CONDITIONS

The currently paved area located north of Whatcom Creek and east of the Re-Store Building and Astor Street right-of-way, will be available for staging and stockpiling. Temporary material stockpiling can also be done south of Whatcom Creek at the location shown on the Plans.

1.04 SUBMITTALS

- A. Soil Management and Disposal Plan

The Contractor shall submit a Construction Plan and Schedule (as described under Section 02300 – Earthwork), which will include (among

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others) a section entitled Soil Management and Disposal Plan. At a minimum, the Soil Management and Disposal Plan section of the Construction Plan and Schedule shall contain the following information:

1. Methods, procedures, and equipment to be used for stockpiling, rehandling, transporting, and disposing of excavated material.
2. Haul routes for excavated materials.
3. Disposal site(s) for excavated materials.

B. Certificates

The Contractor shall provide the Engineer with copies of the following documentation:

1. Landfill Disposal Site(s)

The Contractor shall submit for review, at the Pre-Construction Conference, the name, location, and applicable state and federal identification numbers of the off-site facility or facilities to be used for disposal of material from this Project. The Contractor shall also submit a letter of commitment from the landfill facility or facilities at which they are proposing to dispose of the materials.

2. Shipping and Disposal Documents

The Contractor shall submit copies of top tickets and Certificates of Disposal signed by the receiving disposal facility for any waste transported from the site. The Contractor shall also submit all manifests and shipping documents.

PART 2 – PRODUCTS

The Contractor shall provide containers for packaging all waste materials destined for off-site disposal. Containers shall be in accordance with Federal and WSDOT regulations.

The Contractor shall provide all of the materials required for stockpiling.

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PART 3 – EXECUTION

3.01 SEGREGATION OF SOILS

During construction, the Contractor shall segregate Potentially Reusable Soil from Landfill Refuse and Debris.

3.02 STOCKPILING OF SOIL

Excavated material shall be hauled directly off the site by truck or shall be placed in temporary stockpiles within the available area(s) shown on the Plans. All stockpiles of excavated and imported material shall be kept only within these areas. Stockpiles shall not be placed within five horizontal feet of the upper edge of any excavation.

Stockpiles and stockpile areas shall be maintained in good condition and constructed of materials that are compatible with the material being stored.

Stockpile areas shall be fenced and locked while no work is taking place on the site. The Contractor shall also post a sign at each entrance to the stockpile areas, bearing the legend “Unauthorized Persons Keep Out,” or an equivalent legend, legible from a distance of 25 feet or more.

No material shall be stockpiled in such a manner as to endanger a partly finished structure, impair the efficiency or appearance of any structure, impair access to adjacent sites or facilities, or be detrimental to the completed work in any way.

Stockpiles shall be underlain by a chemically resistant polyethylene geomembrane underliner with a minimum thickness of 10 mils. Scrim-reinforced underliners shall have a minimum weight of 40 pounds per 1,000 square feet. Adjacent geomembrane sections shall be continuously overlapped by a minimum of three feet. It is not necessary to seam adjacent geomembrane sections below the stockpiles.

The ground surface on which the underliner is placed shall be free of rocks greater than 1/2 inch in diameter and any other object which could damage the underliner. Alternatively, the Contractor may place a layer of geotextile or plywood to fully underlie and protect the underliner in any locations containing

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rocks or debris which are greater than 1/2 inch in diameter, on the ground surface, or in any areas through which vehicular traffic will travel.

Stockpiles shall be covered to prevent precipitation from entering the stockpile. Stockpile covers shall be polyethylene geomembrane with a minimum thickness of 10 mils. The stockpile cover shall be anchored to prevent it from being removed by wind.

A written log shall be kept to track the source of all material in each stockpile. Stockpile areas shall be returned to their original or better condition after completion of construction.

3.03 WASTE DISPOSAL

If the Engineer's on-site representative finds any evidence of contamination (by visual, olfactory, or other means), the potentially contaminated soil shall be stockpiled separately and sampled and analyzed to determine disposal options.

Soil which is designated for landfill disposal and which contains free water, where required by the disposal facility, shall be stabilized at the landfill using moisture absorbent material such as lime, cement, or fly-ash.

Material that is excavated shall be placed in lined, sealed dump trucks and hauled to the disposal site. The Contractor shall not spill, overflow, or release excavated material during transport to the disposal site.

PART 4 – MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

All material hauled away by vehicle shall be weighed on off-site certified scales such as truck scales on highways or at the disposal sites. The scales shall be of sufficient capacity to permit weighing the transporting vehicle both empty and full. Scales shall be of the type that will print weigh tickets. A duplicate copy of each weigh ticket shall be furnished to the Engineer as well as a copy of the latest scale certification.

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4.02 PAYMENT

Payment will be made at the Contract unit price for DISPOSAL OF EXCAVATED MATERIAL, payment of which shall constitute full compensation for management, stockpiling, off-site transportation, disposal, and preparation and submittal of reports and certificates as specified.

END OF SECTION 02325